

DIRECTOR Oklahoma State University Water Research Center

Responsibilities include:

- Implement and coordinate programs of the Water Research Center.
- Work with state and federal agencies to identify needs and opportunities in water resources, research and education.
- Work cooperatively with the state and research directors of the seven academic colleges at OSU.

Training and Experience

- A Ph.D. degree with several years' experience in water resources is highly desirable.
- Successful development of contract and grant programs and excellent communicative skills are essential.
- Research administration and graduate level teaching experience are desired.

Salary: Commensurate with qualifications.

Academic Rank: Commensurate with academic training and professional experience. Although the director's position is not a tenure-track appointment, there is the possibility that the director can be appointed to a tenure-track position within an appropriate academic department. This would require approval of the department and appropriate dean.

Applications: Applications will be received until March 1, 1984. Send letter of application, resume, transcript and a list of three (3) references to:

Dr. W. A. Siblay
Oklahoma State University
101 Whitehurst Hall
Stillwater, Oklahoma 74078

OKLAHOMA STATE UNIVERSITY IS AN EQUAL OPPORTUNITY EMPLOYER

Geophysicist/Department of Commerce, National Oceanic and Atmospheric Administration (NOAA). The Office of Climate and Atmospheric Research, NOAA, announces a vacancy for the position of Geophysicist, GS-1340-15/14, Rockville, Maryland. Vacancy closes January 12, 1984. Incumbent will plan, coordinate and implement research program from mesoscale to climate applications with special emphasis on satellite data collection, data management and follow-on research activities. Serves as focal point within NOAA for data management and evaluation of research proposals for such programs as First GARP Global Atmosphere (TOGA) Program. Allocates funds for research contracts and grants. Persons interested in applying MUST request a copy of Vacancy Announcement by writing to NOAA, 6001 Executive Boulevard, Rockville, MD 20852, Attn: V. Peters, ATTPER11 or calling (301) 458-8979. Applications should be submitted on Standard Form 171, Department of Commerce is an equal opportunity employer.

Physical Oceanography and Acoustic/Dynamics Oceanography, Inc. Research Scientist positions are available for versatile and innovative individuals with capabilities in the following areas:

Ocean Acoustics and Signal Processing. Candidates at both entry and experienced levels are sought. Analytical and experimental positions are available in the fields of acoustics, hydroacoustics and geophysics, remote sensing and image processing. Ph.D. or M.S. required. U.S. citizenship is desirable.

Physical Oceanography, Ph.D. or some experience preferred. Positions involve both analytic modeling and analysis of small-scale hydrodynamic processes in the ocean. Experience with internal waves, fine structure or microstructure is desirable.

Submit resume and salary requirements to: Fern Marks, Manager of Administration, Dynamics Technology, Inc., 22399 Hawthorne Blvd., Torrance, CA 90505.

Equal Opportunity Employer M/F-U.S. citizenship required.

Geophysicist/Tectonophysics/University of Wyoming. Applications are invited for a tenure-track position at the Assistant Professor level in the Department of Geology and Geophysics. Candidates should have teaching and research interests in such areas as tectonophysics, thermal modeling and/or plate tectonics. The successful applicant will join an established Ph.D. level geophysics program. Duties will include teaching undergraduate and graduate level geophysics courses, and establishing a vigorous research program. Excellent opportunities exist for cooperation with mathematicians; the Mathematics Department includes a strong numerical methods group with interests in geophysics. Send resume, transcripts and three letters of recommendation by January 15, 1984 to Peter N. Shive, Dept. of Geology/Geophysics, P.O. Box 3100, University of Wyoming, Laramie, WY 82071.

The University of Wyoming is an equal opportunity/affirmative action employer.

McMaster University/Department of Geology-Geophysics. Applications are invited for a tenure-track position in Geophysics. The department has established strengths in geochronology (including isotopic studies), sedimentology and paleontology, and is seeking to develop new areas of solid earth geophysics relevant to existing geological research programs. Teaching duties will include a course in applied geophysics for geology students and participation in a joint Geology/Physics Program.

The appointment should be made before September 1984 and will probably be at the Assistant Professor level. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Those interested should submit a curriculum vitae and the names of three references to:

Dr. M.J. Ridd, Chairman, Appointment Committee, Department of Geology, McMaster University, Hamilton, Ontario, Canada, L8S 4L1.

Global Weather Dynamics, Inc./Computer Specialist. Location: National Meteorological and Environmental Center (NMEC) within the Meteorological and Environmental Protection Administration (MEPA), Jeddah, Kingdom of Saudi Arabia. Academic Qualifications: Degree of Science preferred with major in Meteorology and/or Computer Science. Appropriate types and duration of experience may be acceptable in lieu of academic qualifications.

Experience: Extensive computer experience including responsibility for data base design, development and implementation together with experience in data base management preferably using Control Data Corporation (CDC) computer system. Experience in writing requirements documents and demonstrated advanced FORTRAN and COBOL programming skills are essential. Experience in life-sustaining applications may seek a joint appointment with the Burke Museum on campus. A successful candidate in either area will be expected to teach at both the undergraduate and graduate levels.

Applicants should send vitae and names of four references to: John B. Adams, Chairman, Department of Geological Sciences, A1-20, University of Washington, Seattle, Washington 98195. Closing date for applications is February 15, 1984. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

University of Georgia/12-month tenure-track faculty position in the School of Forest Resources. Qualifications: Ph.D. in hydrology or forest hydrology with at least one degree in forest resources. Background should include forest resource management and quantitative sciences. Responsibilities: Teach undergraduate and graduate level courses in forest hydrology and watershed management. Develop a research program in an appropriate area of forest hydrology. Rank: Assistant Professor. Salary commensurate with qualifications. Salary commensurate with training and experience. Vision available July, 1984. Applications: All applications must be postmarked no later than 1 February 1984. Submit resume, transcript, and names of at least three references to:

Klaus Steinbeck, Chairman
Hydrologic Search Committee
School of Forest Resources
University of Georgia
Athens, GA 30602
Telephone: 404-542-1376

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Geophysicist/Tectonophysics/Georgia Tech. The School of Geophysical Sciences at Georgia Tech invites applications for a faculty appointment in Earth Sciences. Applicants must have a strong understanding research potential demonstrated by several years of postdoctoral experience or a well-earned research record, and experience in securing research funding. Although no field of specialization is excluded, preference will be given to candidates with a background in geophysics/tectonophysics.

A successful candidate will have a strong background in Earth and Atmospheric Sciences. The School has 25 full-time faculty members and over 50 graduate students.

Applications including resume, phone numbers, and the names and addresses of at least three references should be submitted to: Jean-Claude Marschall, Chairman, Geophysics Search Committee, School of Geophysical Sciences, Georgia Institute of Technology, Atlanta, GA 30332.

The Georgia Institute of Technology is a unit of the university system of the State of Georgia.

Georgia Tech is an affirmative action/equal opportunity employer.

AGU Congressional Science Fellowship. Individuals who are AGU members and U.S. residents are invited to apply for a 1-year assignment on the staff of a congressional committee or a House or Senate member as an advisor on a wide range of scientific issues relating to public policy questions.

Applicants should have a broad background in science, be articulate, literate, and flexible and be able to work well with people from diverse professional backgrounds.

A public policy background is not required, although such experience and/or a demonstrated interest in applying science to the solution of public problems is desirable.

\$28,000 (plus travel allowances).

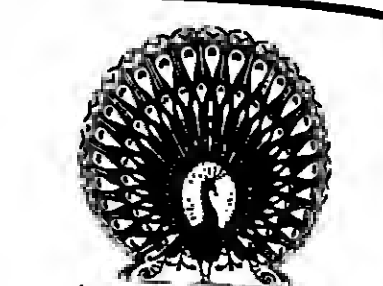
How to apply:

Applicants should submit a letter of intent, a curriculum vitae, and three letters of recommendation. The letter of intent should include a statement of why the fellowship is desired, how you will qualify for it, what issues and congressional situations interest you, what role you envision as a congressional staff member, and how you anticipate your long-term contribution to career goals. The individuals from whom you request letters of recommendation should discuss your professional reputation and other aspects of your background that make you particularly qualified to serve as a Congressional Science Fellow.

Send your application to: Department MP, Congressional Science Fellowship, American Geophysical Union, 5000 Log Cabin Road, N.W., Washington, DC 20008.

Application deadline: March 31, 1984.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer.



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University of Iowa/Faculty Positions. The Department of Physics and Astronomy anticipates two openings for tenure-track assistant professors in the areas of (1) elementary particle physics and (2) astrophysics. We are interested in candidates who will establish exceptional and innovative research programs. Postdoctoral research experience is highly desirable. One opening is available beginning September 1984. This is a tenure-track position at the rank of Assistant Professor or higher under exceptional circumstances. A second position may be available in September 1985. A paleogeography/paleogeologist may seek a joint appointment with the Burke Museum on campus. A successful candidate in either area will be expected to teach at both the undergraduate and graduate levels.

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Applicants should send vitae and names of four references to: John B. Adams, Chairman, Department of Geological Sciences, A1

can be identified with the "active network" outside the normal active-region boundaries on the sun. Because of its broad spatial extent, this component would not have a large modulation by the solar rotation. The need for such a term is fairly obvious from the UV or HeII 10830 time sequences, but it is unknown (and fundamentally important for solar physics) whether or not this component can be physically distinguished from the evolution of active regions, including the ephemeral regions.

A major goal of the workshop was the identification of ground-based observations that could best provide the key solar synoptic data for the interpretation of all these phenomena. In the past, solar synoptic data have not enjoyed the glamour of a number of other branches of astronomy, and this has caused suffering both in terms of resources available and, at times, in quality of personnel. There have been many (probably unfair) references to 17th-century techniques for existing synoptic data, but all workshop participants would agree that improvements in type or quality of data are relatively easy to achieve.

This meeting report was prepared by Hugh S. Hudson, who is with the Center for Atmospheric and Space Sciences, University of California San Diego, La Jolla, CA 92093.

Large-Scale Snow Studies

A workshop on Large-Scale Snow Studies, sponsored by the IAGLR International Committee on Snow and Ice (ICSI) was held in Hamburg on August 26, 1983 to discuss a 1981 ICSI working group report on the subject, present several invited review papers, and obtain recommendations that would be considered for submission to ICSI. Albert Rango, U.S. correspondent for ICSI, was the workshop convenor.

The consensus of opinion at the workshop was that continued research in remote sensing of snowpack properties should be supported; microwave research should point toward definition of the optimum set of sensors for spaceborne studies; and a comparison of the mapping of large-scale snow extent with

operational NOAA visible products and spaceborne microwave radiometers should be conducted.

ICSI should promote the idea of increased reporting of snow data to the appropriate World Data Centers (WDC) by member countries. There are few regular contributors of snow data to the centers whereas data on ice is reported much more regularly and in far greater quantity. Improved access to continental snow data is mandatory for successful remote sensing studies. Furthermore, remote sensing data sets should be submitted to the WDC upon completion of analysis so that they will be available to other investigators. It was pointed out that the U.S. Air Force will launch another in their series of DMSP satellites in 2-3 years that will carry a multispectral microwave radiometer directly applicable to snow property mapping. ICSI should support the acquisition and archiving of this data so that they can be readily available for scientific investigation. This activity must be initiated soon in order to make effective use of the data when the satellite is launched.

The working group will continue to evaluate progress in this area and shall inform ICSI on the likelihood of conducting a sym-

posium on large-scale effects of snow on either Budgets (1984) or Vancouver (1987). Such efforts must be provided two years in advance.

This meeting report was contributed by Allen Rango, who is with the U.S. Department of Agriculture's Agricultural Research Service, Beltsville, MD 20705.

Future AGU Meetings

Fall Meetings
Dec. 3-7, 1984, San Francisco
(Abstracts due mid-September 1984)
Dec. 9-13, 1985, San Francisco
(Abstracts due mid-September 1985)

Ocean Sciences Meeting
Feb. 20-24, 1984, New Orleans

Spring Meetings
May 14-18, 1984, Cincinnati
(Abstracts due February 22, 1984)
May 27-31, 1985, Baltimore
(Abstracts due early March 1985)

SUN Report

Recognizing the need of SI units in physical cosmography, and noting IAPSO Resolution no. 9 adopted in 1981, the SUN Report recommends the adoption of the complete SI Report in final form and urges the scientific community to study the report and consider its use by scientists, publishers, and editors of oceanographic journals, hopefully by January 1, 1984.

Atmospheric and oceanic observations over the Pacific Ocean

Recognizing that the World Climate Research Program requires atmospheric and oceanic observations over the Pacific Ocean and that the International Pacific Year (IPY) in 1988 will be a unique opportunity for the scientific community to study the Pacific Ocean and its interactions with the atmosphere, the SUN Report recommends that the scientific community, publishers, and editors of oceanographic journals, hopefully by January 1, 1984, consider the need for increased observations over the Pacific Ocean.

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"Hard Work Award"

The first distinguished service award that IAPSO has ever given to a physical oceanographer, entitled the "Hard Work Award", was given to Maurice Menché, formerly with the Institut Océanographique in Paris, for his 11 years of distinguished and devoted service as Chairman of the IAPSO Working Group in Symbols, Units and Nomenclature in Physical Oceanography. IAPSO Secretary General Eugene C. LaFond notes that Menché "steadfastly guided the successful establishment of the International System (SI) units in physical oceanography."

International Association of Seismology and Physics of the Earth's Interior

Resolutions

Reproduced below are resolutions adopted by IASPEI during the 19th General Assembly of the International Union of Geodesy and Geophysics (IUGG) in Hamburg, August 15-22, 1983.

The resolutions passed at each quadrennial general assembly of IUGG and of its member associations are an important barometer of current opinion in the geophysical community and can be a powerful tool in the development of the scientific programs to which they are addressed. The resolutions will help advance programs, however, only if they are read, carried back home by the national committees which make up the IUGG, the resolutions can spread information worldwide on programs that promise to most effectively advance geophysical knowledge. IUGG and its member associations intend that member groups will present the resolutions before decision makers and otherwise use them to make decision makers aware of international scientific thought.

The 19 resolutions adopted by IUGG in 1983 appeared in *Eos*, October 4, 1983, p. 392.

The International Association of Seismology and Physics of the Earth's Interior (IASPEI), recognizing the importance of historical seismology to the study of seismicity, earthquake risk, and the mechanism of earthquakes, particularly in large earthquakes or smaller shocks occurring in areas where few records are available, recommends the progress of the joint IAPSO/ICSI working group on Historical Seismology, and copying historical materials, and the safety and preservation of original documents, resolves to continue its association with the Group in supporting and extending the research bodies to study and act upon the recommendations of its detailed report, in particular those pertaining to the preservation of original astronomical and earthquake records, the dissemination of the present location and completeness of the files of records no longer exist, and the return of records to their country of origin.

Recognizing the dramatic progress in the development of parameters used to characterize the seismicity of the earth, and that many of these parameters can be routinely estimated, resolves to encourage the use of these parameters in the study of seismicity, and to encourage the use of these parameters in the study of seismicity, and to encourage the use of these parameters in the study of seismicity.

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checkered model calculations of Robie and Kasting (1983). Transport of the major neutral constituents by both the meridional and vertical circulation and vertical molecular and eddy diffusion are considered in the model. The calculated distributions of the major neutral constituents for solar ionization only and for solar plus neutral ionization are compared. The results show that the meridional-wind poleward circulation transports both H₂ and H₂O across the solar terminator into the polar night region where there is a downward vertical transport toward the atmosphere. The calculated initial distribution of H₂ in the lower thermosphere is compared with the results of a model calculation for the solar ionization-only case done with the meridional-wind poleward circulation. To obtain agreement between the calculated and observed structure, it is necessary to include ionization and dissociation sources due to neutral particle precipitation. The temperature and composition structure and the circulation changes caused by high-latitude heating and the particle-induced production of H₂ and H₂O all combine to bring the calculated H₂ structure into better agreement with observations.

The effect of the eddy diffusion coefficient critically controls the downward flow of thermospheric neutral molecules into the atmosphere. The model shows that the eddy diffusion coefficient at high winter latitudes is anomalously controlled by particle precipitation and ionospheric processes.

J. Geophys. Res., Space, Paper 3A1781

Aeronomy
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Electromagnetics

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AGU

Actions at Hamburg

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Resolutions

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